

**TABLE 10-5A**

**DEFAULT U-FACTORS FOR OVERALL ASSEMBLY METAL STUD WALLS,  
EFFECTIVE R-VALUES FOR METAL FRAMING AND CAVITY ONLY,  
AND DEFAULT METAL BUILDING U-FACTORS**

**TABLE 10-5A(3)**  
**Default Metal Building Wall U-Factors**

<u>Insulation System</u>	<u>Nominal R-Value of Insulation</u>	<u>Total Nominal R-Value of Insulation</u>	<u>Overall U-Factor for Entire Base Wall Assembly</u>	<u>Overall U-Factor for Assembly of Base Wall Plus Continuous Insulation (uninterrupted by framing)</u>					
				<u>Nominal R-Value of Continuous Insulation</u>	<u>R-5.6</u>	<u>R-11.2</u>	<u>R-16.8</u>	<u>R-22.4</u>	<u>R-28.0</u>
<b>Single Layer of Mineral Fiber</b>									
None	0	<b>1.180</b>	0.161	0.086	0.059	0.045	0.036	0.030	0.030
R-6	6	<b>0.184</b>	0.091	0.060	0.045	0.036	0.030	0.026	0.026
R-10	10	<b>0.134</b>	0.077	0.054	0.051	0.033	0.028	0.024	0.024
R-11	11	<b>0.123</b>	0.073	0.052	0.040	0.033	0.028	0.024	0.024
R-13	13	<b>0.113</b>	0.069	0.050	0.039	0.032	0.027	0.024	0.024
<b>Double Layer of Mineral Fiber</b>									
(Second layer inside of girts)									
(Multiple layers are listed in order from inside to outside)									
R-6 + R-13	19	<b>0.070</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A
R-10 + R-13	23	<b>0.061</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A
R-13 + R-13	26	<b>0.057</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A
R-19 + R-13	32	<b>0.048</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A

	<u>(R-10</u>	<u>R-11</u>	<u>R-13</u>	<u>R-19</u>	<u>R-24</u>	<u>R-30</u>
Faced fiber glass blanket insulation rolled over and perpendicular to structural frame. Metal covering sheets fastened to the frame, holding insulation in place.	0.133	0.127	0.114	0.091	n/a	n/a
Faced fiber glass batt insulation suspended between structural frame. Metal covering sheets fastened directly to frame.	0.131	0.123	0.107	0.079	0.065	0.057
Faced fiber glass blanket insulation rolled over and perpendicular to structural frame. Rigid insulation blocks placed over insulation to align with structural frame.	0.102	0.096	0.084	0.065	n/a	n/a
Faced fiber glass batt insulation suspended between structural frame. Rigid insulation blocks placed over insulation to align with structural frame.	0.099	0.093	0.080	0.059	0.048	0.041))